

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-295718

(43)Date of publication of application : 10.11.1998

(51)Int.Cl.

A61F 7/00

A61B 17/36

(21)Application number : 10-109162

(71)Applicant : SCANDIMED INTERNATL AB

(22)Date of filing : 20.04.1998

(72)Inventor : LIDGREN LARS  
STROEMQVIST BJOERN  
SEVERSON JOHAN

(30)Priority

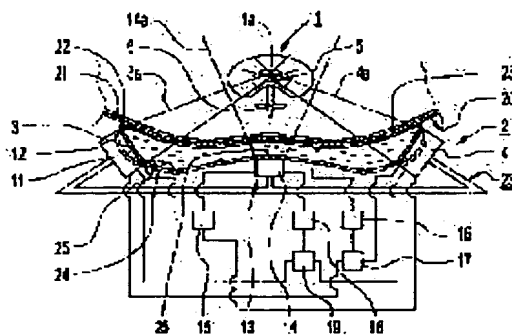
Priority number : 97 9701449 Priority date : 18.04.1997 Priority country : SE

## (54) UNIT FOR NON-INVASIVE TREATMENT OF ORGANISM

(57)Abstract:

PROBLEM TO BE SOLVED: To enable an interspinal disk to be ultrasonic treated without degenerating tissue surrounding the interspinal disk, by acting an ultrasonic wave from an ultrasonic wave generator to the interspinal disk or a pulpy nucleus, heating to deform tissue in a focus area, and lowering pressure in the interspinal disk.

SOLUTION: Ultrasonic wave generators 3, 4 to generate ultrasonic waves 3a, 4a are equipped so that both waves are mutually overlapped at a focus area 5. The focus area 5 is determined on an interspinal disk 1, preferably a pulpy nucleus 1a, to heat tissue in the focus area 5 up to a temperature sufficient to deform the tissue. The pressure in the interspinal disk is lower thereby and pressure on the spinal cord is reduced. Further, an ultrasonic wave generator 14 is equipped on a therapeutic apparatus 13 to propagate the ultrasonic wave for registration of the interspinal disk 1 previous to the ultrasonic treatment. Thus ultrasonic effect can be effected in a wide range using at least two ultrasonic wave generator 3, 4 and the outputs of ultrasonic wave generators can be reduced. Thus the quantity of heat generated in the skin can be minimized.



BEST AVAILABLE COPY

## LEGAL STATUS

[Date of request for examination] 22.03.2005

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or

application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office